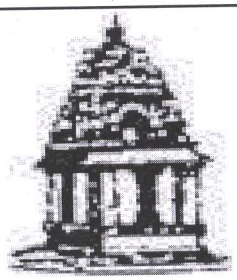


BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : Improvements to Roads and Drains at Thanisandra Govt school Backside & Anjanadri Layout in Ward No. 6 Byatarayanapura Sub Division

Estimated Cost : 30.00 Lakhs

Job Code:

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at Thanisandra Govt school Backside & Anjanadri Layout in Ward No. 6 Byatarayanapura Sub Division

			Estimate Cost Rs.						3000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2015-16	cum							
	Desilting of Drains								
	Cross Road		1	200.00	0.35	0.25	17.50		
			1	150.00	0.35	0.25	13.13		
			1	75.00	0.35	0.25	6.56		
			1	150.00	0.35	0.25	13.13		
			1	150.00	0.35	0.25	13.13		
							63.44	159.84	**10140.00**
	Basic Rate	148.00							
	Area Weightage @ 8%	11.84							
	Total	**159.84**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
	For Culverts		3	6.50	1.95	1.05	39.93		
							39.93	288.36	**11513.00**
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	**288.36**							
3	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2015-16	Sqm							
	Cross Road		1	200.00	1.65		330.00		
			1	150.00	1.65		247.50		
			1	75.00	1.65		123.75		
			1	150.00	1.65		247.50		
			1	150.00	1.65		247.50		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							1196.25		
	Deduct 25% Missing Slabs						299.06		
							897.19	63.72	**57169.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
4	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2015-16	Sqm							
			Qty Vide Item No.3				897.19		
							897.19	**78.84**	**70734.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2015-16	**Sqm**							
	For Missing Slab						299.06		
							299.06	663.12	**198314.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	**663.12**							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2015-16	**Cum**							
	For CC Road Cross Road		1	150	4.50	0.15	101.25		
			1	150	4.50	0.15	101.25		
	For Culverts		3	6.50	1.95	0.15	5.70		
							5.70	5070.60	**28921.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2015-16	cum							
	For Culverts		3X2	6.50	0.60	0.45	10.53		
							10.53	4135.32	**43545.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2015-16	Sqm							
	For Culverts		3X2	6.50	0.50	0.45	8.78		
							8.78	**4905.36**	**43045.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2015-16	Sqm							
	For Culverts		3	6.50	0.60		11.70		
	For Sides		3X2	6.50	0.23		8.97		
			3X2	1.65	0.23		2.28		
							22.95	**270.00**	**6196.00**
	Basic Rate	**250.00**							
	Area Weightage @ 8%	20.00							
	Total	**270.00**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2015-16	cum							
	For Culverts		3X2	6.50	0.50	0.10	1.95		
	Vent Bed		3	6.50	0.60	0.10	1.17		
							3.12	5491.80	**17134.00**
	Basic Rate	5085.00							
	Area Weightage @ 8%	406.80							
	Total	**5491.80**							
11	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2015-16	Sqm							
	For Culverts		3X2	6.50		0.50	19.50		
							19.50	99.36	**1938.00**
	Basic Rate	92.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	7.36							
	Total	**99.36**							
12	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	**Cum**							
13	For Culverts		3	6.50	1.65	0.23	7.40		
							7.40	6198.12	**45868.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
14 (13)	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16	**Qtl**							
	0.75Ton/Cum		0.075	7.40			**0.56**	69805.80	**38744.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2015-16	Cum							
	For CC Road Cross Road		1	150	4.50	0.10	67.50		
			1	150	4.50	0.10	67.50		
							135.00	6332.04	**854825.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
16	KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, No. 233/ Item No. 31.3 PWD SR 2015-16	M							
	For CC Road Cross Road		30	4.50			135.00		
			30	4.50			135.00		
							270.00	150.12	**40532.00**
	Basic Rate	139.00							
	Area Weightage @ 8%	11.12							
	Total	**150.12**							
17	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2015-16	Sqm							
	For CC Road Cross Road		1	150	4.50		675.00		
			1	150	4.50		675.00		
							1350.00	97.20	**131220.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
18	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154/ Item No. 20.18/ PWD SR 2015-16	Cum							
			1	200.00	5.00	0.20	200.00		
			1	150.00	5.00	0.20	150.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	75.00	5.00	0.20	75.00		
							425.00	1713.96	**728433.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
19	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 157/ Item No. 21.5/ PWD SR 2015-16	Sqm							
	Cross Road Thanisandra.		1	200.00	5.00		1000.00		
			1	150.00	5.00		750.00		
			1	75.00	5.00		375.00		
							2125.00	70.20	**149175.00**
	Basic Rate	65.00							
	Area Weightage @ 8%	5.20							
	Total	**70.20**							
20	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2015-16	Cum							
	Cross Road		1	200.00	5.00	0.025	25.00		
			1	150.00	5.00	0.025	18.75		
			1	75.00	5.00	0.025	9.38		
							53.13	9264.24	**492163.00**
	Basic Rate	8578.00							
	Area Weightage @ 8%	686.24							
	Total	**9264.24**							
22	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1+2				**103.36**		
	Average Weight of Earth 1.28 Ton/Cum						**103.36**	62.20	**6429.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	PWD SR 2010-11 (P.118/I.17.1) For loading and unloading	62.20							
	Total	**67.32**							
							Grand Total		**2965898.00**
									29659.00
23	For 1% Third Party Inspection Charges								
									4443
24	Miscesallaneous Charges	L/S							
								Total	**3000000.00**

Rupees Thirty Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092
3/12/15

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

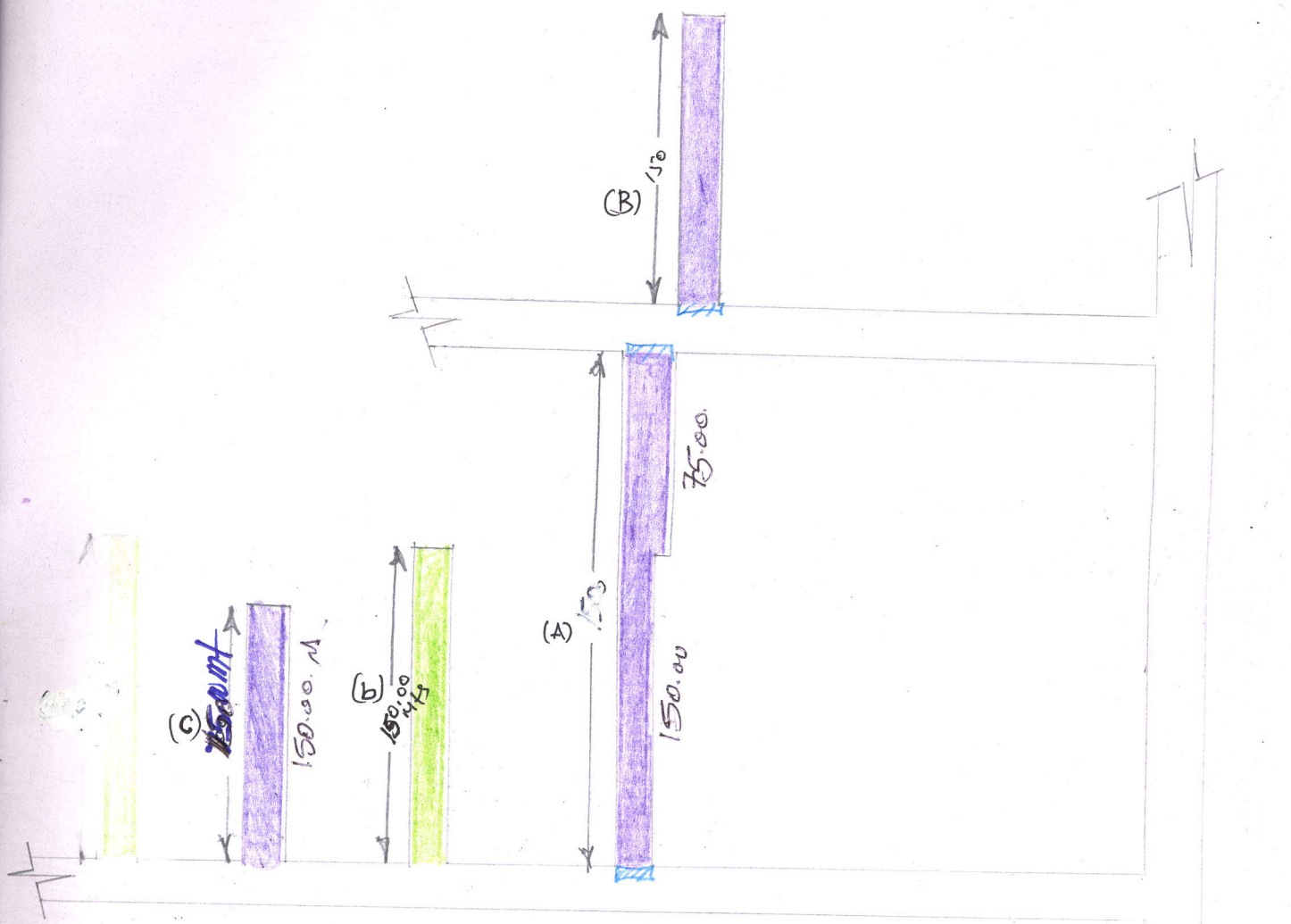
Administrative Approval
Accorded For 30.00 lakh Rs
Head of A/C P 3075
CER NO : 48 Dt:. 14-12-15

TA CE (YNK)

Technical Sanction
Accorded For 30.00 L
Head of A/C P-3075
CER NO : 11 Dt:. 26/12/15

Superintending Engineer
Yelahanka Zone
BBMP, Bangalore

Name of Wrok: Improvements to Roads and Drains at Thanisandra Govt school Backside & Anjanadri Layout in Ward No. 6 Byatarayanapura Sub Division



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24